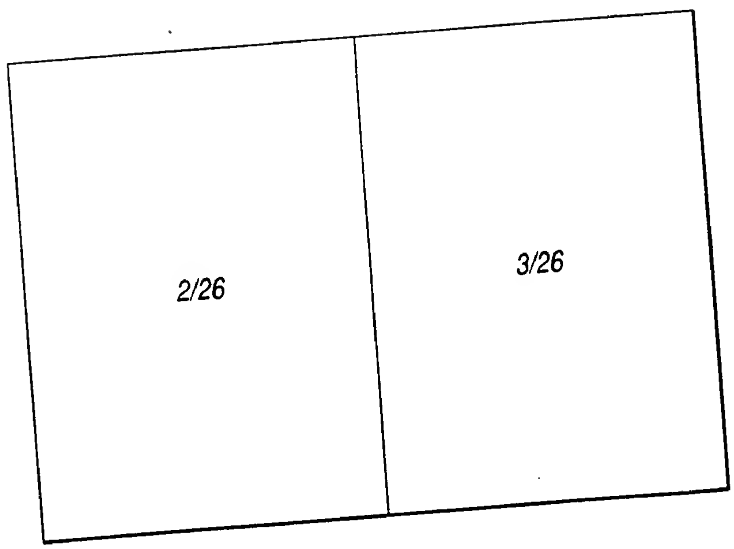


Fig. 1

```
                          A                    S1
Bclw      MATPASTPDT RALVADFVGY
Bclw-Rox  MATPASTPDT RALVADFVGY

Bclw      DEFETRFRRT FSDLAAQLHV
Bclw-Rox  DEFETRFRRT FSDLAAQLHV

Bclw      VFGAALCAES VNKEMEPLVG
Bclw-Rox  VFGAALCAES VNKEMEPLVG

Bclw      YGDGALEEAR RLREGNWASV
Bclw-Rox  ARVREMEEEA EKLKELQNEV

Bclw-Rox  IYVGNVDYGA TAEELEAHFH

Bclw-Rox  ESVRTSLALD ESLFRGRQIK

Bclw-Rox  NSSRSRFYSG FNSRPRGRIY
```

Fig. 1 (i)

```
KLRQKGYVCG AGPGEGPAAD PLHQAMRAAG    50
KLRQKGYVCG AGPGEGPAAD PLHQAMRAAG    50

                        S2
TPGSAQQRFT QVSDELFQGG PNWGRLVAFF   100
TPGSAQQRFT QVSDELFQGG PNWGRLVAFF   100

   E                        S3
QVQDWMVAYL ETRLADWIHS SGGWAEFTAL   150
QVQDWMVAYL ETRLADWIHS SGGWELEAIK   150
                              ▲

                                   193
RTVLTGAVAL GALVTVGAFF ASK*
EKQMNMSPPP GNAGPVIMSL EEKMEADARS   200

GCGSVNRVTI LCDKFSGHPK GFAYIEFSDK   250

VIPKRTNRPG ISTTDRGFPR SRYRARTTNY   300

                                   333
RGRARATSWY SPY*
```

Fig. 1 (ii)

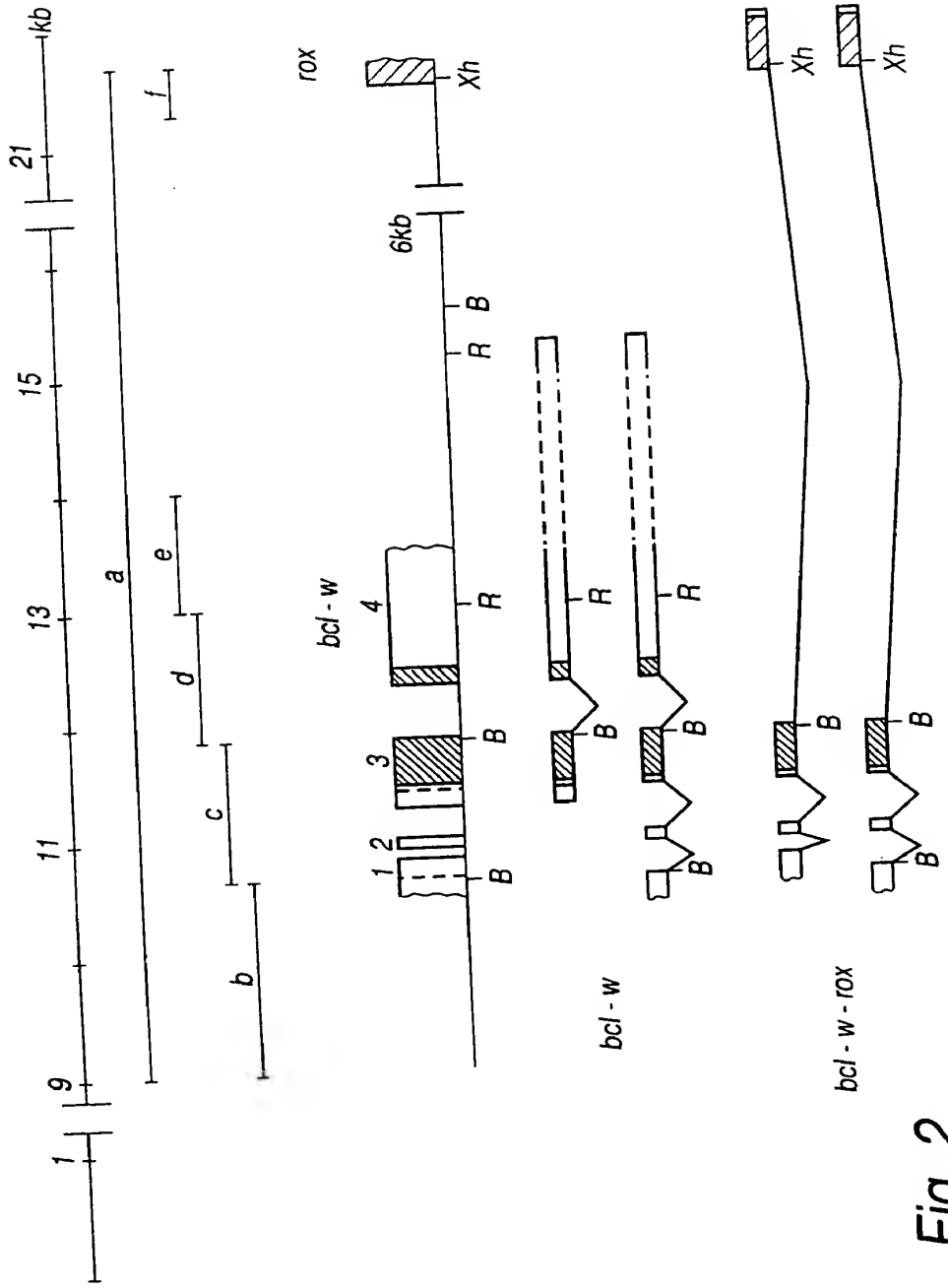


Fig. 2

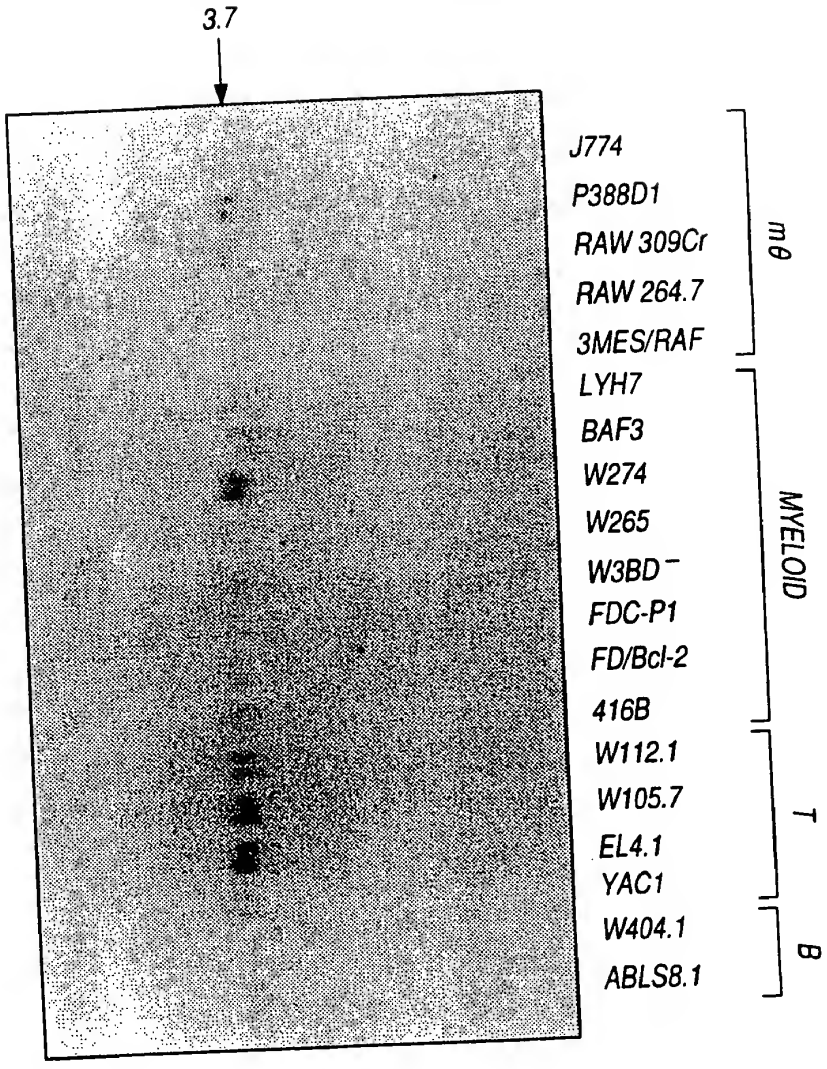

3.7
J774
P388D1
RAW 309Cr
RAW 264.7
3MES/RAF
LYH7
BAF3
W274
W265
W3BD⁻
FDC-P1
FD/Bcl-2
416B
W112.1
W105.7
EL4.1
YAC1
W404.1
ABLS8.1
mθ
MYELOID
T
B

Fig. 3

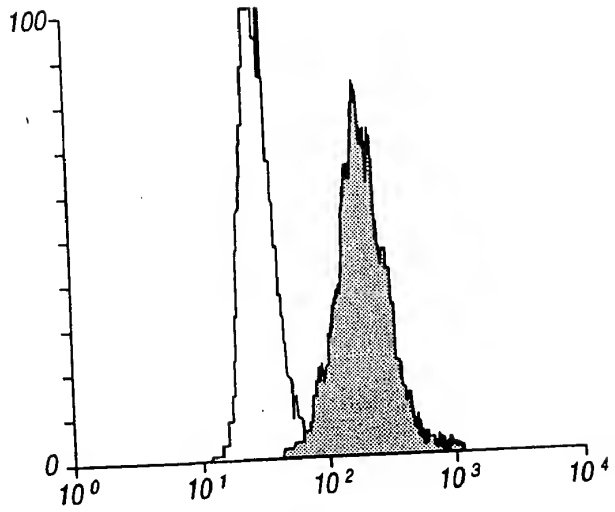


Fig. 4A

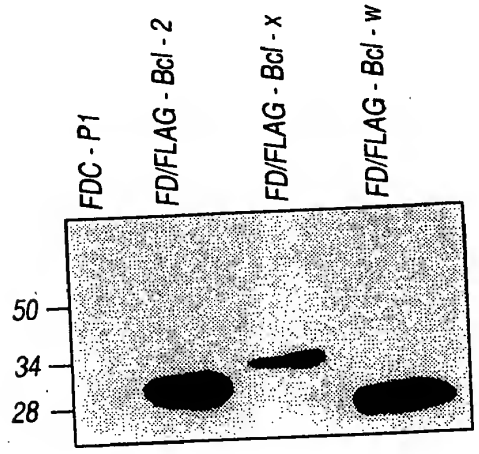


Fig. 4B

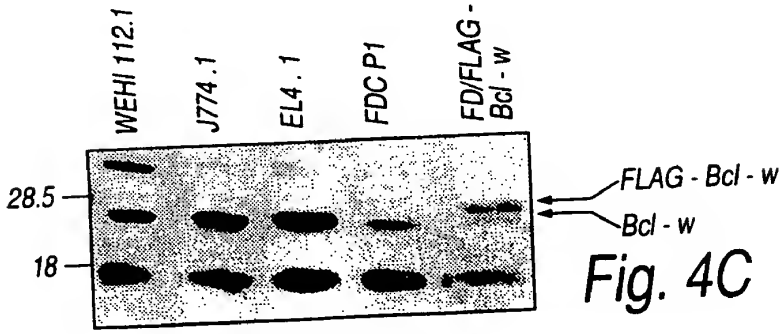


Fig. 4C

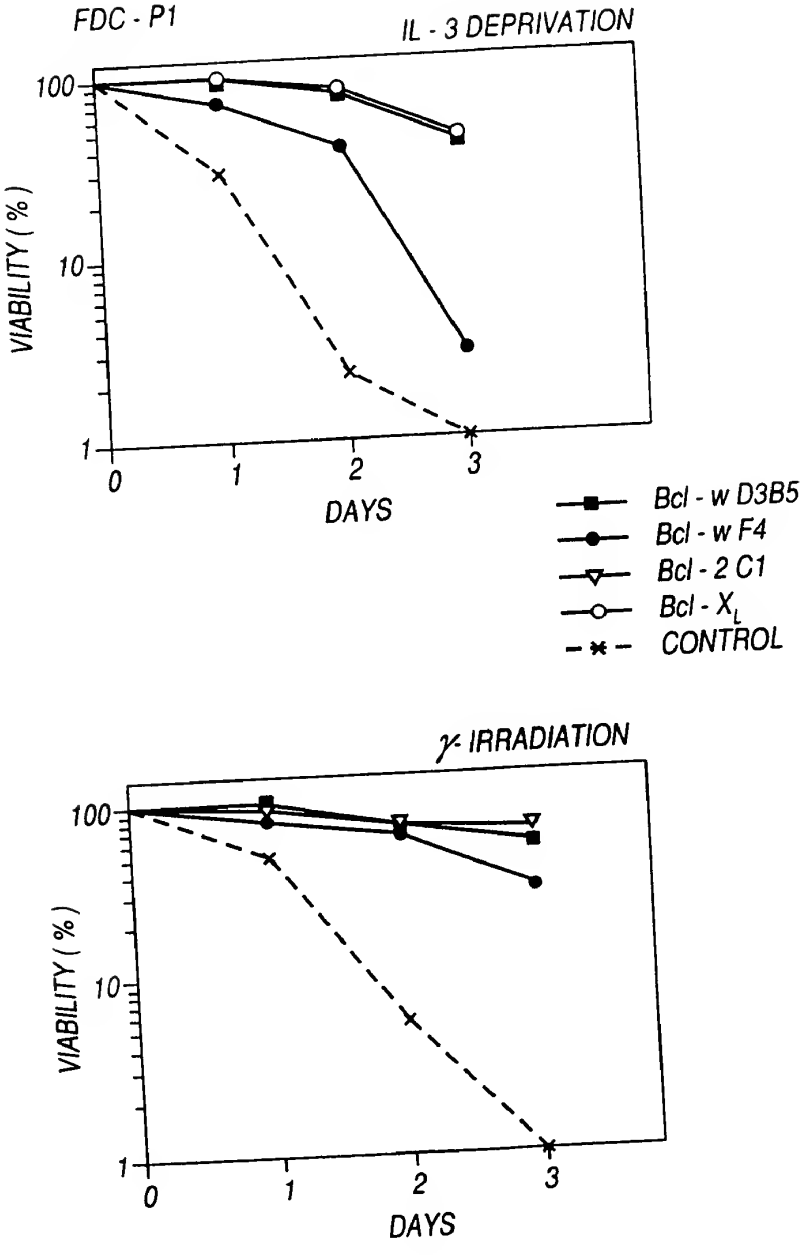
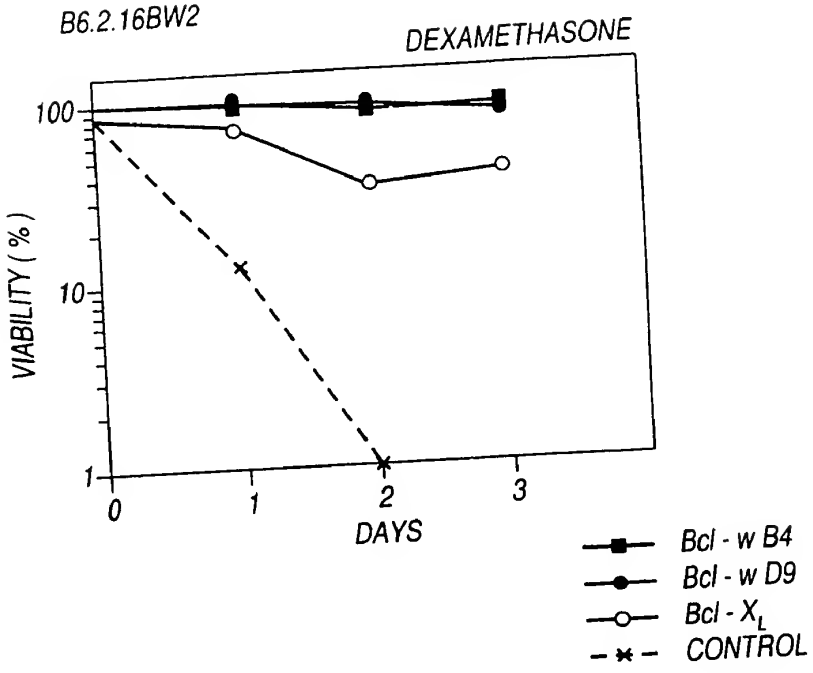

FDC - P1
IL - 3 DEPRIVATION
100
10
1
VIABILITY (%)
0
1
2
3
DAYS
Bcl - w D3B5
Bcl - w F4
Bcl - 2 C1
Bcl - X$_L$
CONTROL
γ- IRRADIATION
100
10
1
VIABILITY (%)
0
1
2
3
DAYS

Fig. 5A


B6.2.16BW2
DEXAMETHASONE
100
10
1
VIABILITY (%)
0
1
2
3
DAYS
Bcl - w B4
Bcl - w D9
Bcl - X_L
CONTROL

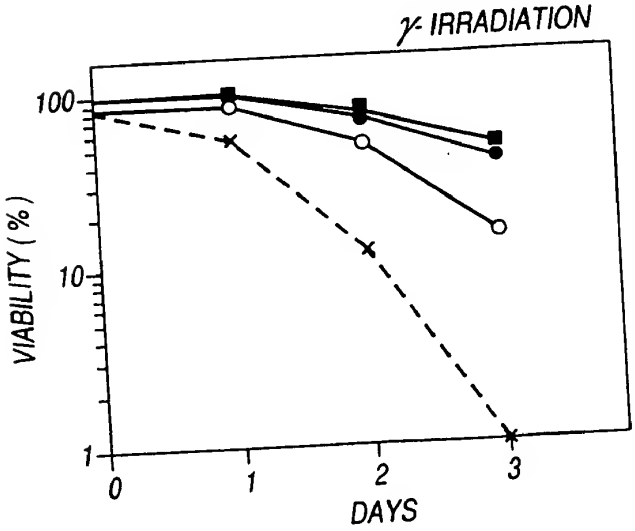
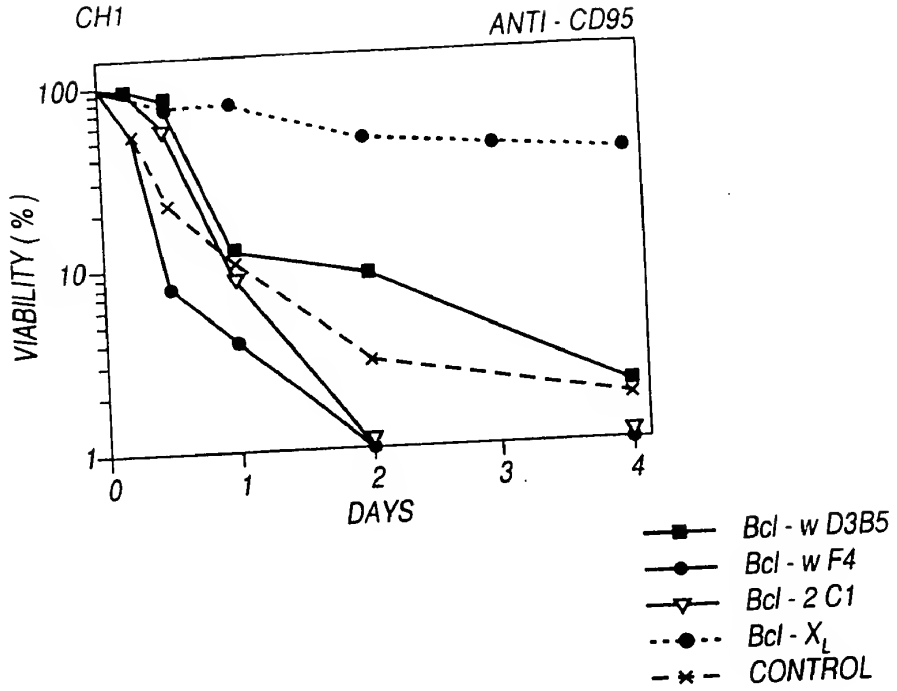

γ- IRRADIATION
100
10
1
VIABILITY (%)
0
1
2
3
DAYS

Fig. 5B


CH1
ANTI - CD95
100
10
1
VIABILITY (%)
0
1
2
3
4
DAYS
Bcl - w D3B5
Bcl - w F4
Bcl - 2 C1
Bcl - X_L
CONTROL

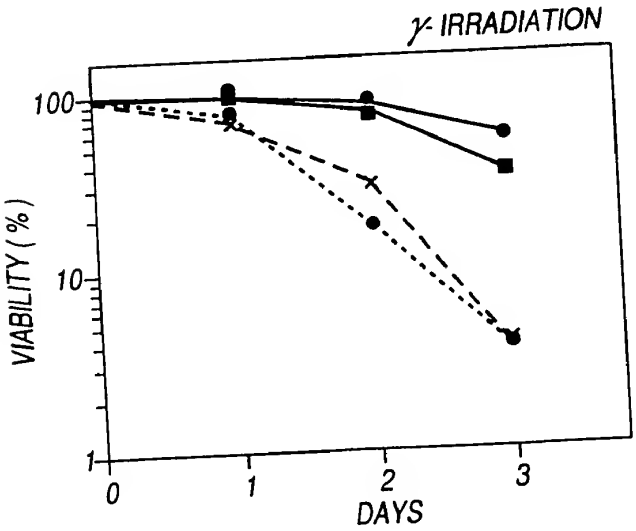
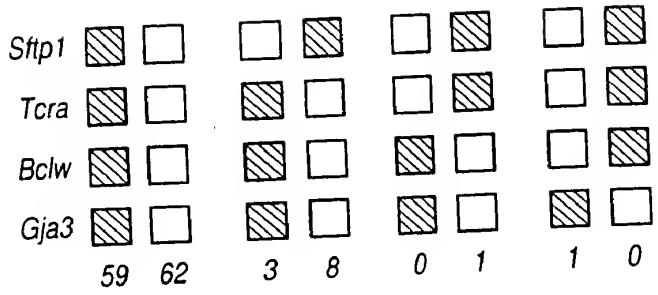

γ- IRRADIATION
100
10
1
VIABILITY (%)
0
1
2
3
DAYS

Fig. 5C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Tcra
Bclw
Gja3
59 62 3 8 0 1 1 0

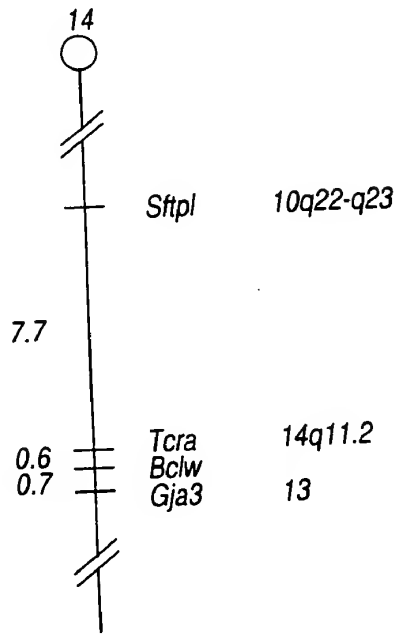
14
Sftpl 10q22-q23
7.7
Tcra 14q11.2
0.6 Bclw
0.7 Gja3 13

Fig. 6

Fig. 7A

Fig. 7B

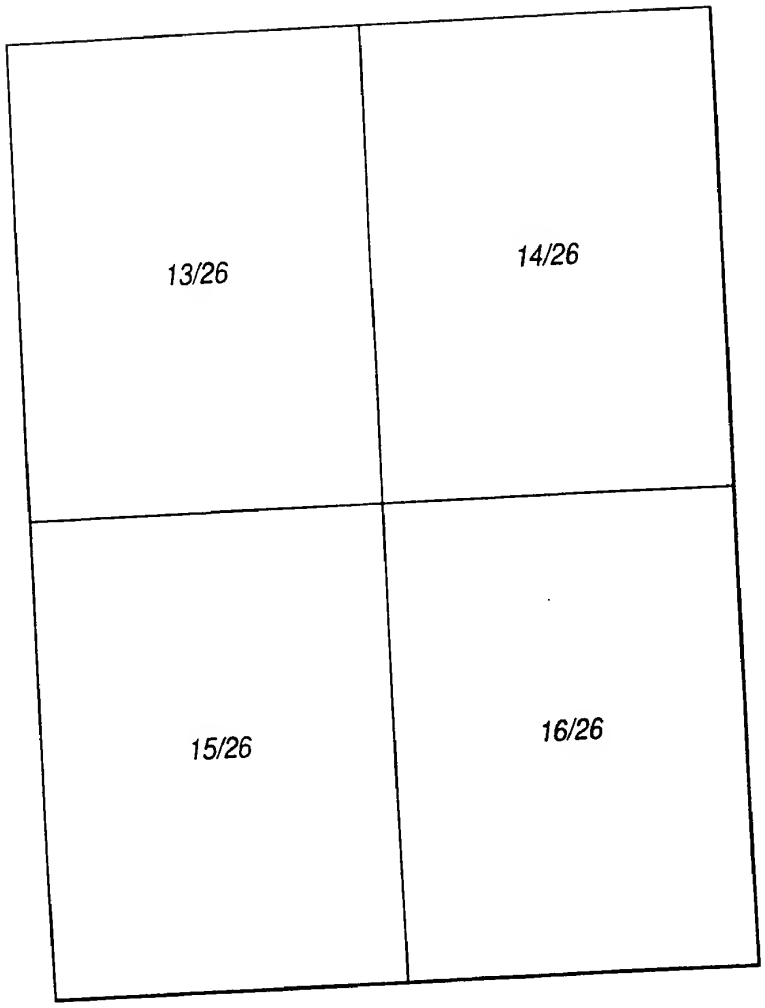

Fig. 8

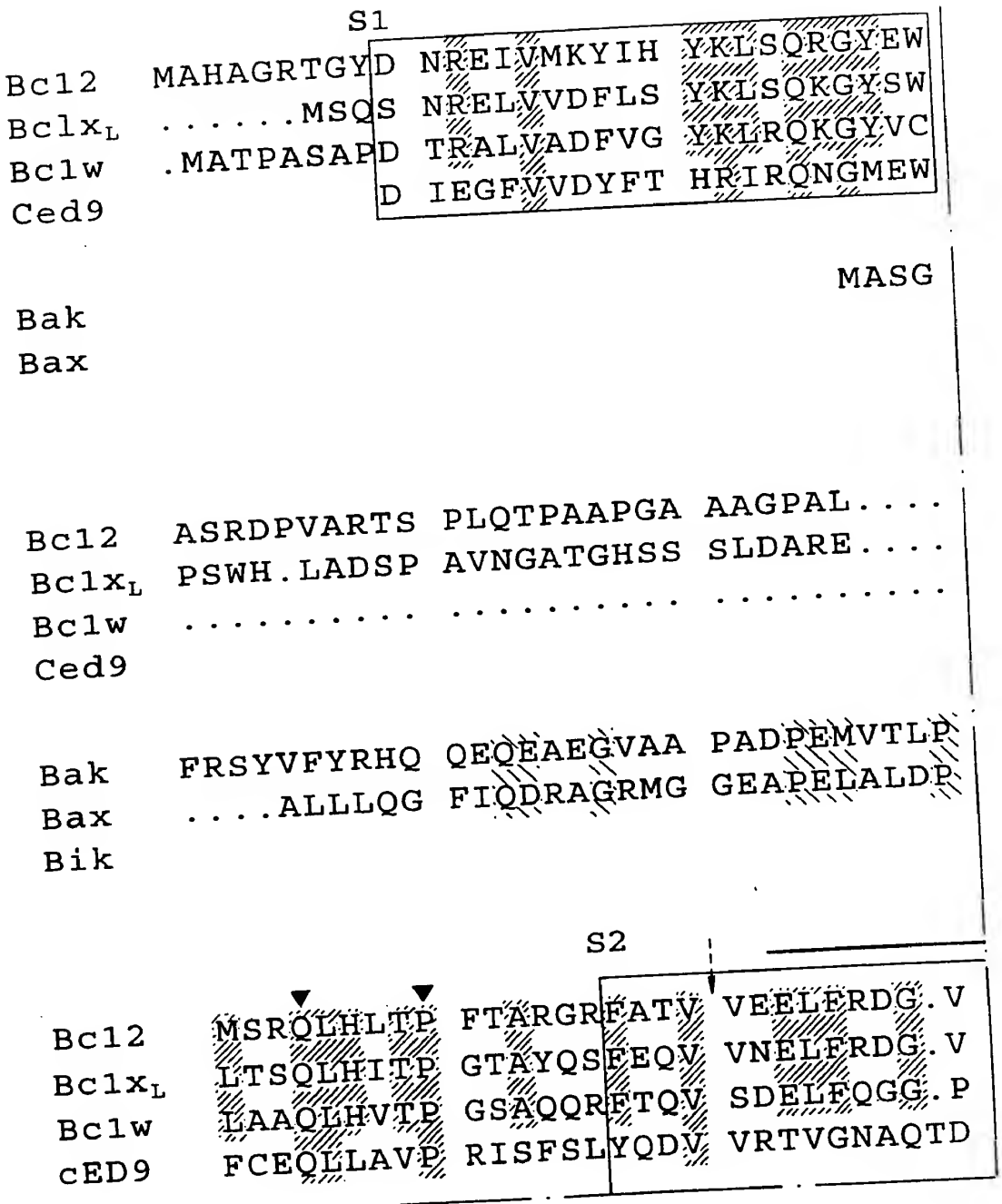
S1
Bc12 MAHAGRTGYD NREIVMKYIH YKLSQRGYEW
Bclx$_L$ .....MSQS NRELVVDFLS YKLSQKGYSW
Bc1w .MATPASAPD TRALVADFVG YKLRQKGYVC
Ced9 D IEGFVVDYFT HRIRQNGMEW
MASG
Bak
Bax
Bc12 ASRDPVARTS PLQTPAAPGA AAGPAL....
Bclx$_L$ PSWH.LADSP AVNGATGHSS SLDARE....
Bc1w ....
Ced9
Bak FRSYVFYRHQ QEQEAEGVAA PADPEMVTLP
Bax ....ALLLQG FIQDRAGRMG GEAPELALDP
Bik
S2
Bc12 MSRQLHLTP FTARGRFATV VEELFRDG.V
Bclx$_L$ LTSQLHITP GTAYQSFEQV VNELFRDG.V
Bc1w LAAQLHVTP GSAQQRFTQV SDELFQGG.P
cED9 FCEQLLAVP RISFSLYQDV VRTVGNAQTD

Fig. 8 (i)

```
DAGDVGAAPP GAAPAPGIFS SQPGHTPHTA   60
SQFSDVEENR TEAPEGTESE METPSAINGN   54
GAGPGE.... .......... ..........   35
                                   99

QGPGPPRQEC GEPALPSASE EQVAQDTEEV   34
 MDGSGEQPR GGGPTSSEQI MKTG......   23

                 BH3          NH1
...SPVPPPVV HLTLRQAGDDFSRRYRRDFAE  113
...VIPMAAV KQALREAGDEFELRYRRAFSD   107
...GPAADPL HQAMRAAGDEFETRFRRTFSD    63
           HEMMRVMGTIFEKKHAENFET   132

                *   *
LQPSSTMGQV GRQLAIIGDDINRRYDSEFQT    95
VPQDASTKKL SECLKRIGDELDS..NMELQR    78
              LACIGDEMD

BH1
    *
....NWGRIV AFFEFGG..V .MCVESVNRE  165
....NWGRIV AFFSFGG..A .LCVESVDKE  158
....NWGRLV AFFVFGA..A .LCAESVNKE  114
QCPMSYGRLI GLISFGGFVA AKMMESV..E  190
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Fig. 8 (ii)

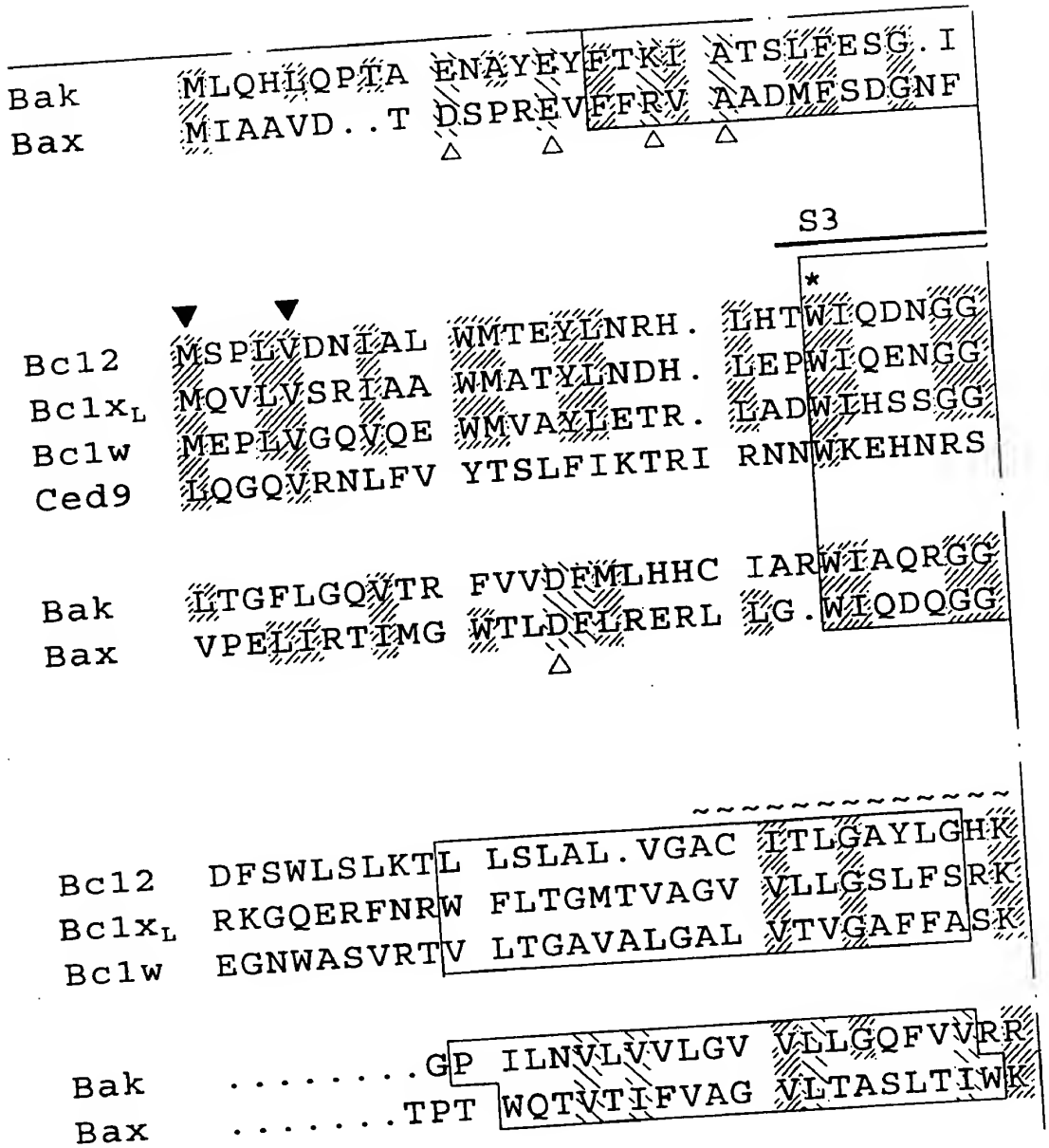

Bak MLQHIQPTA ENAYEYFTKI ATSLFESG.I
Bax MIAAVD..T DSPREVFFRV AADMFSDGNF
S3
Bc12 MSPLVDNIAL WMTEYLNRH. LHTWIQDNGG
Bc1x$_L$ MQVLVSRIAA WMATYLNDH. LEPWIQENGG
Bc1w MEPLVGQVQE WMVAYLETR. LADWLHSSGG
Ced9 LQGQVRNLFV YTSLFIKTRI RNNWKEHNRS
Bak LTGFLGQVTR FVVDFMLHHC IARWIAQRGG
Bax VPELIRTIMG WTLDFLRERL LG.WIQDQGG
Bc12 DFSWLSLKTL LSLAL.VGAC ITLGAYLGHK
Bc1x$_L$ RKGQERFNRW FLTGMTVAGV VLLGSLFSRK
Bc1w EGNWASVRTV LTGAVALGAL VTVGAFFASK
Bak .....GP ILNVLVVLGV VLLGQFVVRR
Bax .....TPT WQTVTIFVAG VLTASLTIWK

Fig. 8 (iii)

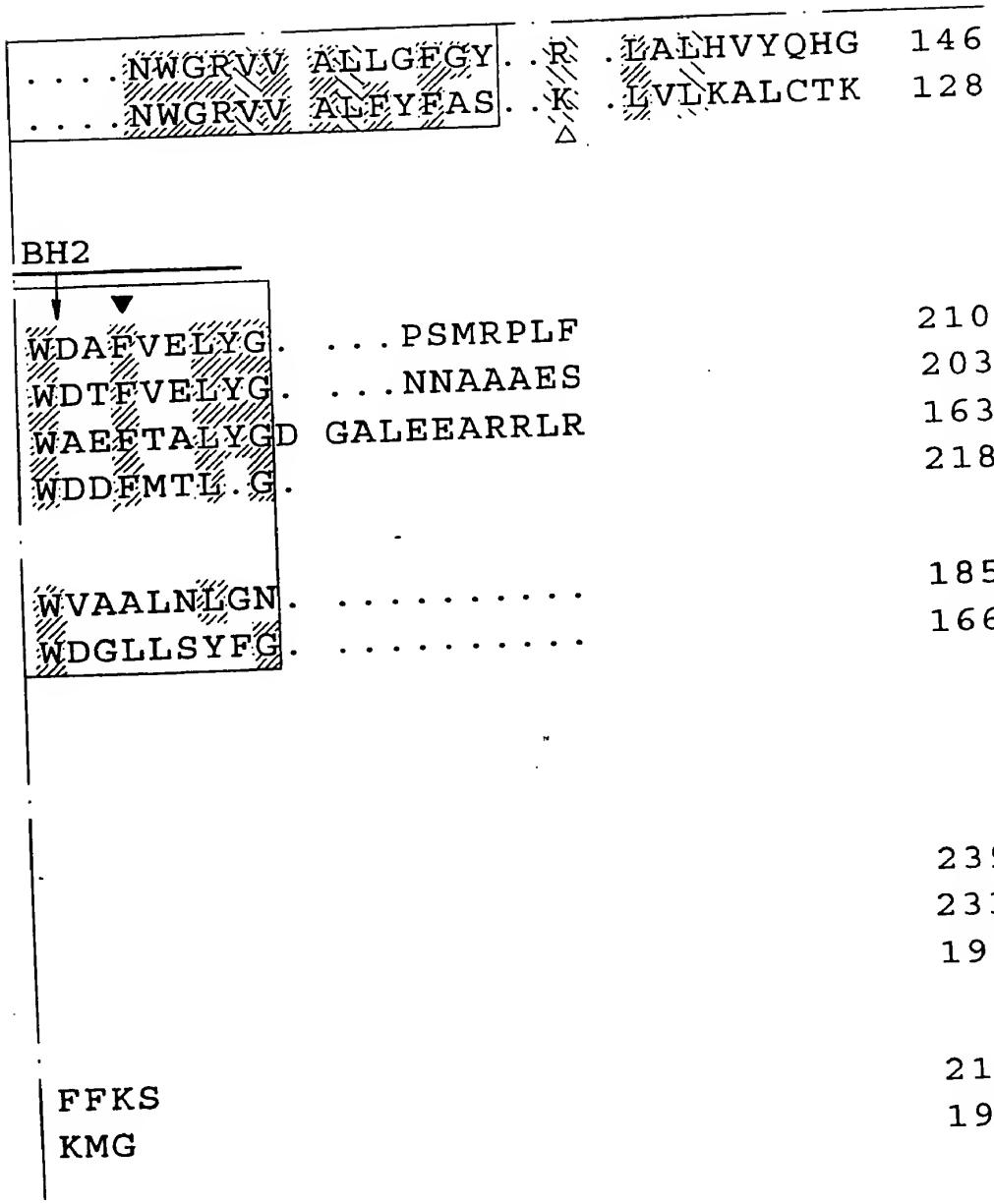

....NWGRVV ALLGFGY..R .LALHVYQHG 146
....NWGRVV ALFYFAS..K .LVLKALCTK 128
BH2
WDAFVELYG. ...PSMRPLF 210
WDTFVELYG. ...NNAAAES 203
WAEFTALYGD GALEEARRLR 163
WDDFMTL.G. 218
WVAALNLGN. 185
WDGLLSYFG. 166
239
233
193
FFKS 211
KMG 192

Fig. 8 (iv)

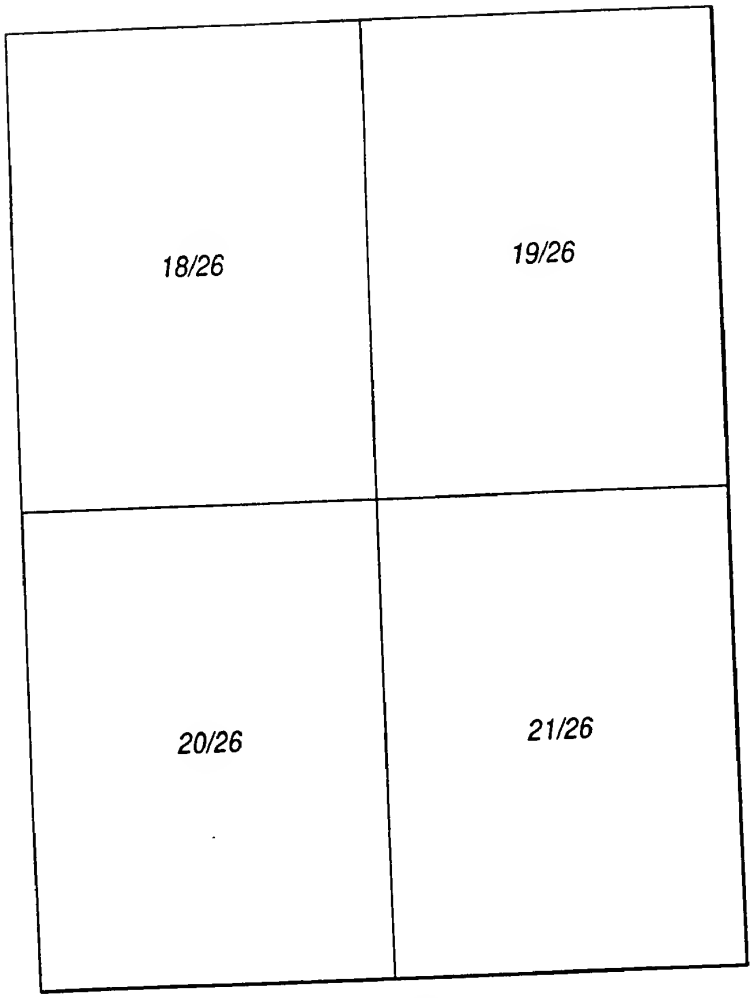


Fig. 9A

```
ATG GCG ACC CCA GCC TCG GCC CCA GAC
Met Ala Thr Pro Ala Ser Ala Pro Asp
  1               5

TTT GTA GGT TAT AAG CTG AGG CAG AAG
Phe Val Gly Tyr Lys Leu Arg Gln Lys
            20                  25

CCC GGG GAG GGC CCA GCA GCT GAC CCG
Pro Gly Glu Gly Pro Ala Ala Asp Pro
        35                  40

GCT GGA GAT GAG TTC GAG ACC CGC TTC
Ala Gly Asp Glu Phe Glu Thr Arg Phe
    50                  55

GCG GCT CAG CTG CAT GTG ACC CCA GGC
Ala Ala Gln Leu His Val Thr Pro Gly
 65                  70

CAG GTC TCC GAC GAA CTT TTT CAA GGG
Gln Val Ser Asp Glu Leu Phe Gln Gly
            85

GTA GCC TTC TTT CTC TTT GGG GCT GCA
Val Ala Phe Phe Leu Phe Gly Ala Ala
        100                 105
```

Fig. 9A (i)

```
ACA CGG GCT CTG GTG GCA GAC                                    48
Thr Arg Ala Leu Val Ala Asp
 10                  15

GGT TAT GTC TGT GGA GCT GGC                                    96
Gly Tyr Val Cys Gly Ala Gly
             30

CTG CAC CAA GCC ATG CGG GCA                                   144
Leu His Gln Ala Met Arg Ala
         45

CGG CGC ACC TTC TCT GAT CTG                                   192
Arg Arg Thr Phe Ser Asp Leu
     60

TCA GCC CAG CAA CGC TTC ACC                                   240
Ser Ala Gln Gln Arg Phe Thr
 75                  80

GGC CCC AAC TGG GGC CGC CTT                                   288
Gly Pro Asn Trp Gly Arg Leu
 90                  95

CTG TGT GCT GAG AGT GTA AAC                                   336
Leu Cys Ala Glu Ser Val Asn
             110
```

Fig. 9A (ii)

```
AAG GAG ATG GAA CCA CTG GTG GGA CAA
Lys Glu Met Glu Pro Leu Val Gly Gln
        115                     120

TAC CTG GAG ACG CGG CTG GTC GAC TGG
Tyr Leu Glu Thr Arg Leu Val Asp Trp
    130                 135

GCG GAG TTC ACA GCT CTA TAC GGG GAC
Ala Glu Phe Thr Ala Leu Tyr Gly Asp
145                 150

CGT CTG CGG GAG GGG AAC TGG GCA TCA
Arg Leu Arg Glu Gly Asn Trp Ala Ser
                165

GCC GTG GCA CTG GGG GCC CTG GTA ACT
Ala Val Ala Leu Gly Ala Leu Val Thr
            180                 185

AAG TGA A
Lys  *
```

Fig. 9A (iii)

```
GTG CAG GAG TGG ATG GTG GCC                                   384
Val Gln Glu Trp Met Val Ala
            125

ATC CAC AGC AGT GGG GGC TGG                                   432
Ile His Ser Ser Gly Gly Trp
        140

GGG GCC CTG GAG GAG GCG CGG                                   480
Gly Ala Leu Glu Glu Ala Arg
    155                 160

GTG AGG ACA GTG CTG ACG GGG                                   528
Val Arg Thr Val Leu Thr Gly
170                 175

GTA GGG GCC TTT TTT GCT AGC                                   576
Val Gly Ala Phe Phe Ala Ser
                190

                                                              583
```

Fig. 9A (iv)

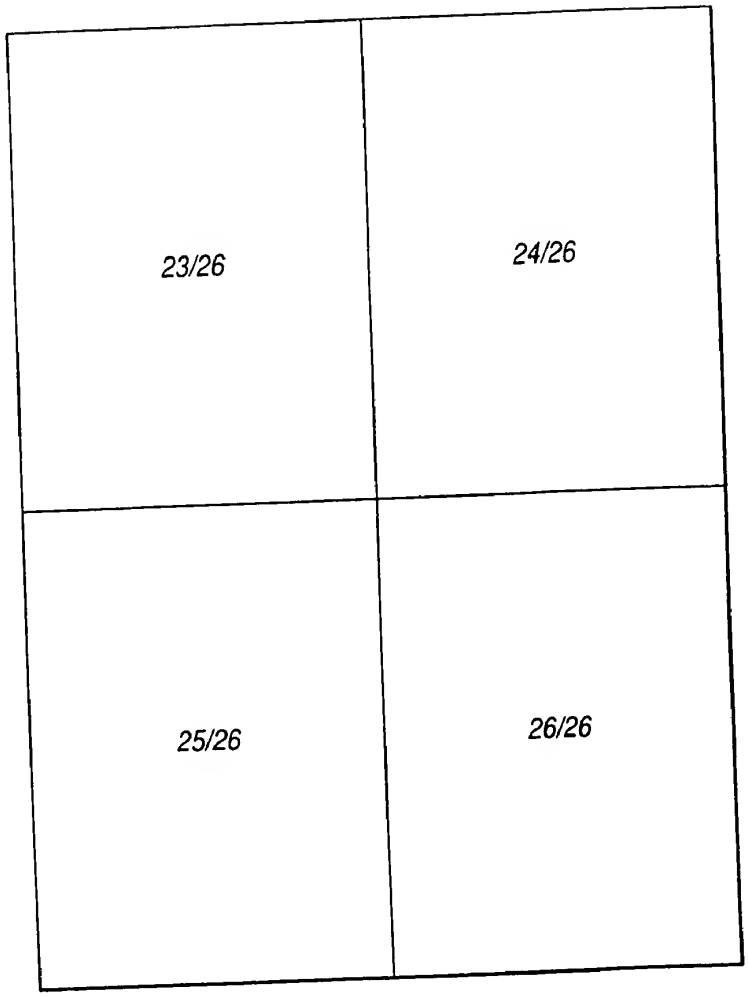


Fig. 9B

```
ATG CCG ACC CCA GCC TCA ACC CCA GAC
Met Pro Thr Pro Ala Ser Thr Pro Asp
  1               5

TTT GTA GGC TAT AGG CTG AGG CAG AAG
Phe Val Gly Tyr Arg Leu Arg Gln Lys
           20                  25

CCT GGG GAA GGC CCA GCC GCC GAC CCG
Pro Gly Glu Gly Pro Ala Ala Asp Pro
       35                  40

GCT GGA GAC GAG TTT GAG ACC CGT TTC
Ala Gly Asp Glu Phe Glu Thr Arg Phe
     50                  55

GCC GCT CAG CTG CAC GTG ACC CCA GGC
Ala Ala Gln Leu His Val Thr Pro Gly
 65                  70

CAG GTT TCC GAC GAA CTT TTC CAA GGG
Gln Val Ser Asp Glu Leu Phe Gln Gly
               85

GTG GCA TTC TTT GTC TTT GGG GCT GCC
Val Ala Phe Phe Val Phe Gly Ala Ala
           100                 105
```

Fig. 9B (i)

```
ACA CGC GCT CTA GTG GCT GAC                                    48
Thr Arg Ala Leu Val Ala Asp
 10                  15

GGT TAT GTC TGT GGA GCT GGG                                    96
Gly Tyr Val Cys Gly Ala Gly
             30

CTG CAC CAA GCC ATG CGG GCT                                   144
Leu His Gln Ala Met Arg Ala
        45

CGC CGC ACC TTC TCT GAC CTG                                   192
Arg Arg Thr Phe Ser Asp Leu
    60

TCA GCC CAG CAA CGC TTC ACC                                   240
Ser Ala Gln Gln Arg Phe Thr
 75                  80

GGC CCT AAC TGG GGC CGT CTT                                   288
Gly Pro Asn Trp Gly Arg Leu
 90                  95

CTG TGT GCT GAG AGT GTC AAC                                   336
Leu Cys Ala Glu Ser Val Asn
            110
```

Fig. 9B (ii)

```
AAA GAA ATG GAG CCT TTG GTG GGA CAA
Lys Glu Met Glu Pro Leu Val Gly Gln
        115                 120

TAC CTG GAG ACA CGT CTG GTC GAC TGG
Tyr Leu Glu Thr Arg Leu Ala Asp Trp
    130                 135

GCG GAC TTC ACA GCT CTA TAC GGG GAC
Ala Asp Phe Thr Ala Leu Tyr Gly Asp
145                 150

CGT CTG CGG GAG GGC AAC TGG GCA TGA
Arg Leu Arg Glu Gly Asn Trp Ala  *
                165

GCC GTG GCA CTG GGG GCC CTG GTA ACT
Ala Val Ala Leu Gly Ala Leu Val Thr
            180                 185

AAG TG
Lys
```

Fig. 9B (iii)

```
GTC CAG GAT TGG ATC GTG GCC                                   384
Val Gln Asp Trp Ile Val Ala
            125

ATC CAC AGC AGT GGC GGC TGG                                   432
Ile His Ser Ser Gly Gly Trp
        140

GGG GCC CTG GAG GAC GCA CGG                                   480
Gly Ala Leu Glu Asp Ala Arg
    155                 160

GTG AGC ACA GTG GTG ACG GGG                                   528
Val Ser Thr Val Val Thr Gly
170                 175

GTA GGG GCC TTT TTT GCT AGC                                   576
Val Gly Ala Phe Phe Ala Ser
                190

                                                              582
```

Fig. 9B (iv)

```
atg gcg acc cca gcc tcg gcc cca gac aca cgg gct ctg gtg gca gac    48
Met Ala Thr Pro Ala Ser Ala Pro Asp Thr Arg Ala Leu Val Ala Asp
 1               5                  10                  15

ttt gta ggt tat aag ctg agg cag aag ggt tat gtc tgt gga gct ggc    96
Phe Val Gly Tyr Lys Leu Arg Gln Lys Gly Tyr Val Cys Gly Ala Gly
            20                  25                  30

ccc ggg gag ggc cca gca gct gac ccg ctg cac caa gcc atg cgg gca   144
Pro Gly Glu Gly Pro Ala Ala Asp Pro Leu His Gln Ala Met Arg Ala
        35                  40                  45

gct gga gat gag ttc gag acc cgc ttc cgg cgc acc ttc tct gat ctg   192
Ala Gly Asp Glu Phe Glu Thr Arg Phe Arg Arg Thr Phe Ser Asp Leu
    50                  55                  60

gcg gct cag ctg cat gtg acc cca ggc tca gcc cag caa cgc ttc acc   240
Ala Ala Gln Leu His Val Thr Pro Gly Ser Ala Gln Gln Arg Phe Thr
65                  70                  75                  80

cag gtc tcc gac gaa ctt ttt caa ggg ggc ccc aac tgg ggc cgc ctt   288
Gln Val Ser Asp Glu Leu Phe Gln Gly Gly Pro Asn Trp Gly Arg Leu
                85                  90                  95

gta gcc ttc ttt gtc ttt ggg gct gca ctg tgt gct gag agt gtc aac   336
Val Ala Phe Phe Val Phe Gly Ala Ala Leu Cys Ala Glu Ser Val Asn
            100                 105                 110

aag gag atg gaa cca ctg gtg gga caa gtg cag gag tgg atg gtg gcc   384
Lys Glu Met Glu Pro Leu Val Gly Gln Val Gln Glu Trp Met Val Ala
        115                 120                 125

tac ctg gag acg cgg ctg gct gac tgg atc cac agc agt ggg ggc tgg   432
Tyr Leu Glu Thr Arg Leu Ala Asp Trp Ile His Ser Ser Gly Gly Trp
    130                 135                 140

gcg gag ttc aca gct cta tac ggg gac ggg gcc ctg gag gag gcg cgg   480
Ala Glu Phe Thr Ala Leu Tyr Gly Asp Gly Ala Leu Glu Glu Ala Arg
145                 150                 155                 160

cgt ctg cgg gag ggg aac tgg gca tca gtg agg aca gtg ctg acg ggg   528
Arg Leu Arg Glu Gly Asn Trp Ala Ser Val Arg Thr Val Leu Thr Gly
                165                 170                 175

gcc gtg gca ctg ggg gcc ctg gta act gta ggg gcc ttt ttt gct agc   576
Ala Val Ala Leu Gly Ala Leu Val Thr Val Gly Ala Phe Phe Ala Ser
            180                 185                 190

                                                                  583
aag tgaa
Lys
```

Figure 9A

```
atg gcg acc cca gcc tca acc cca gac aca cgg gct cta gtg gct gac   48
Met Ala Thr Pro Ala Ser Thr Pro Asp Thr Arg Ala Leu Val Ala Asp
 1               5                  10                  15

ttt gta ggc tat agg ctg agg cag aag ggt tat gtc tgt gga gct ggc   96
Phe Val Gly Tyr Arg Leu Arg Gln Lys Gly Tyr Val Cys Gly Ala Gly
            20                  25                  30

cct ggg gaa ggc cca gcc gcc gac ccg ctg cac caa gcc atg cgg gct  144
Pro Gly Glu Gly Pro Ala Ala Asp Pro Leu His Gln Ala Met Arg Ala
        35                  40                  45

gct gga gac gag ttt gag acc cgt ttc cgc cgc acc ttc tct gac ctg  192
Ala Gly Asp Glu Phe Glu Thr Arg Phe Arg Arg Thr Phe Ser Asp Leu
    50                  55                  60

gcc gct cag cta cac gtg acc cca ggc tca gcc cag caa cgc ttc acc  240
Ala Ala Gln Leu His Val Thr Pro Gly Ser Ala Gln Gln Arg Phe Thr
65                  70                  75                  80

cag gtt tcc gac gaa ctt ttc caa ggg ggc cct aac tgg ggc cgt ctt  288
Gln Val Ser Asp Glu Leu Phe Gln Gly Gly Pro Asn Trp Gly Arg Leu
                85                  90                  95

gtg gca ttc ttt gtc ttt ggg gct gcc ctg tgt gct gag agt gtc aac  336
Val Ala Phe Phe Val Phe Gly Ala Ala Leu Cys Ala Glu Ser Val Asn
            100                 105                 110

aaa gaa atg gag cct ttg gtg gga caa gtg cag gat tgg atg gtg gcc  384
Lys Glu Met Glu Pro Leu Val Gly Gln Val Gln Asp Trp Met Val Ala
        115                 120                 125

tac ctg gag aca cgt ctg gct gac tgg atc cac agc agt ggc ggc tgg  432
Tyr Leu Glu Thr Arg Leu Ala Asp Trp Ile His Ser Ser Gly Gly Trp
    130                 135                 140

gcg gag ttc aca gct cta tac ggg gac ggg gcc ctg gag gag gca cgg  480
Ala Glu Phe Thr Ala Leu Tyr Gly Asp Gly Ala Leu Glu Glu Ala Arg
145                 150                 155                 160

cgt ctg cgg gag ggg aac tgg gca tca gtg agg aca gtg ctg acg ggg  528
Arg Leu Arg Glu Gly Asn Trp Ala Ser Val Arg Thr Val Leu Thr Gly
                165                 170                 175

gcc gtg gca ctg ggg gcc ctg gta act gta ggg gcc ttt ttt gct agc  576
Ala Val Ala Leu Gly Ala Leu Val Thr Val Gly Ala Phe Phe Ala Ser
            180                 185                 190

                                                                582
aag tga
Lys
```

Figure 9B

```
                    A          S1
Bclw        MATPASTPDT RALVADFVGY KLRQKGYVCG AGPGEGPAAD PLHQAMRAAG     50
Bclw-Rox    MATPASTPDT RALVADFVGY KLRQKGYVCG AGPGEGPAAD PLHQAMRAAG     50

                                                    S2
Bclw        DEFETRFRRT FSDLAAQLHV TPGSAQQRFT QVSDELFQGG PNWGRLVAFF    100
Bclw-Rox    DEFETRFRRT FSDLAAQLHV TPGSAQQRFT QVSDELFQGG PNWGRLVAFF    100

                                  E                 S3
Bclw        VFGAALCAES VNKEMEPLVG QVQDWMVAYL ETRLADWIHS SGGWAEFTAL    150
Bclw-Rox    VFGAALCAES VNKEMEPLVG QVQDWMVAYL ETRLADWIHS SGGWELEAIK    150
                                                                 ▲

Bclw        YGDGALEEAR RLREGNWASV RTVLTGAVAL GALVTVGAFF ASK*          193
Bclw-Rox    ARVREMEEEA EKLKELQNEV EKQMNMSPPP GNAGPVIMSL EEKMEADARS    200

Bclw-Rox    IYVGNVDYGA TAEELEAHFH GCGSVNRVTI LCDKFSGHPK GFAYIEFSDK    250

Bclw-Rox    ESVRTSLALD ESLFRGRQIK VIPKRTNRPG ISTTDRGFPR SRYRARTTNY    300

Bclw-Rox    NSSRSRFYSG FNSRPRGRIY RGRARATSWY SPY*                     333
```

FIGURE 1

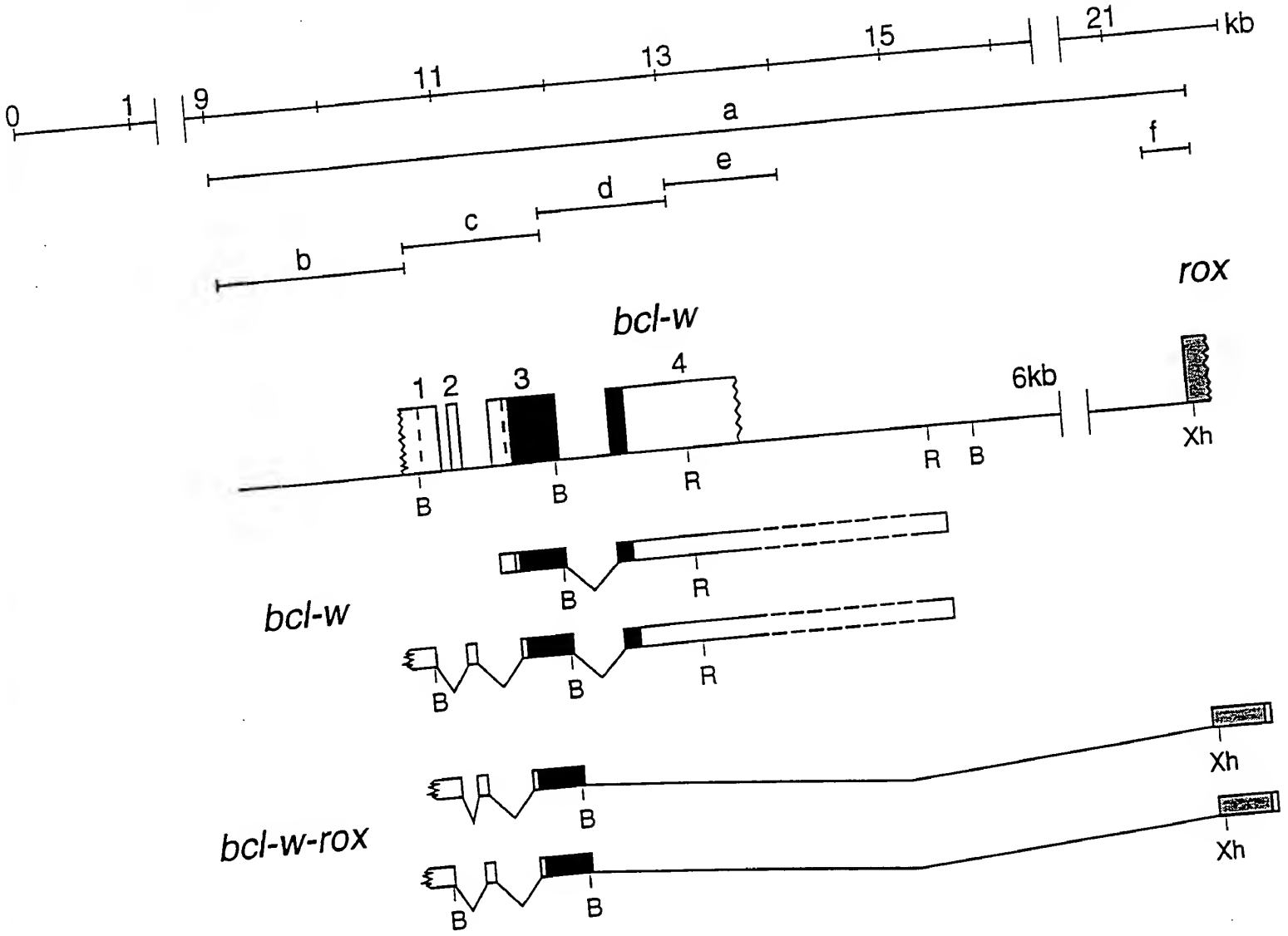

0
1
9
11
13
15
21
kb
a
b
c
d
e
f
rox
bcl-w
1 2
3
4
6kb
B
B
R
R
B
Xh
bcl-w
B
R
B
B
R
bcl-w-rox
Xh
B
Xh
B
B

FIGURE 2

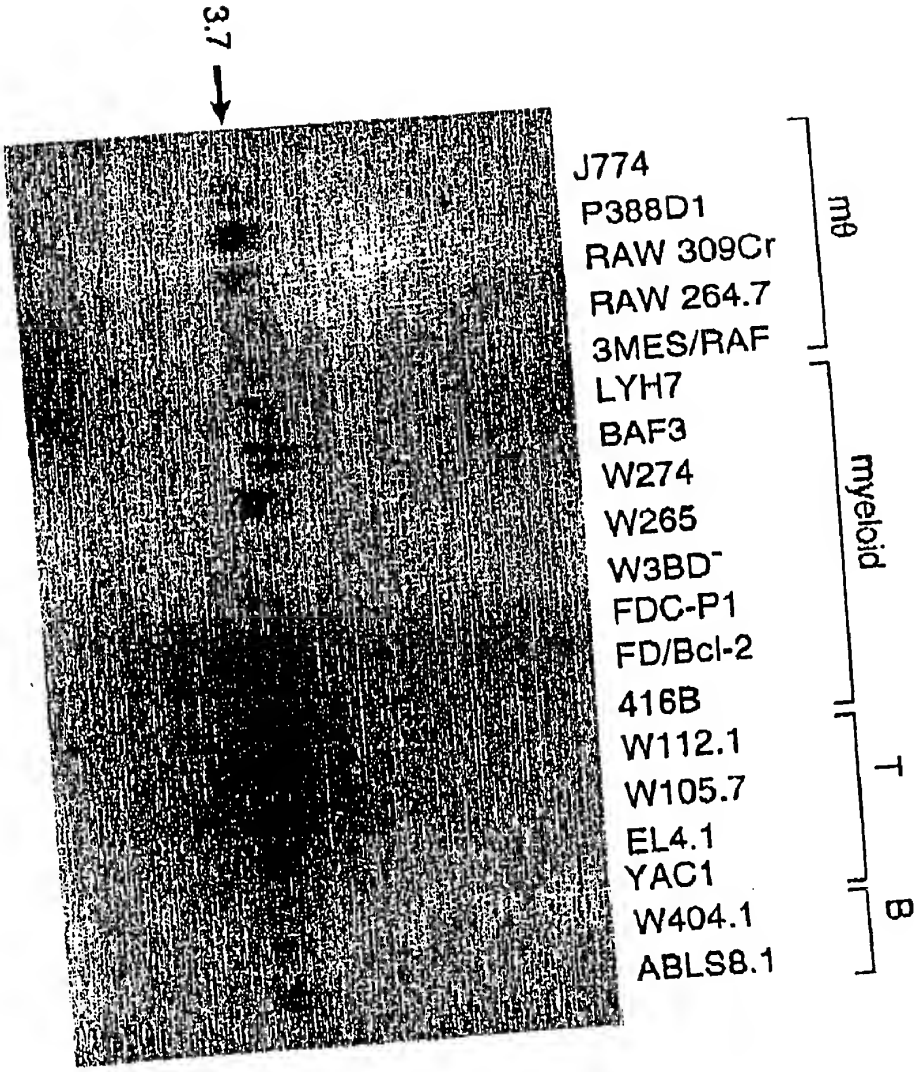

3.7
J774
P388D1
RAW 309Cr
RAW 264.7
3MES/RAF
LYH7
BAF3
W274
W265
W3BD-
FDC-P1
FD/Bcl-2
416B
W112.1
W105.7
EL4.1
YAC1
W404.1
ABLS8.1
mΦ
myeloid
T
B

FIGURE 3

A.

B.

C.

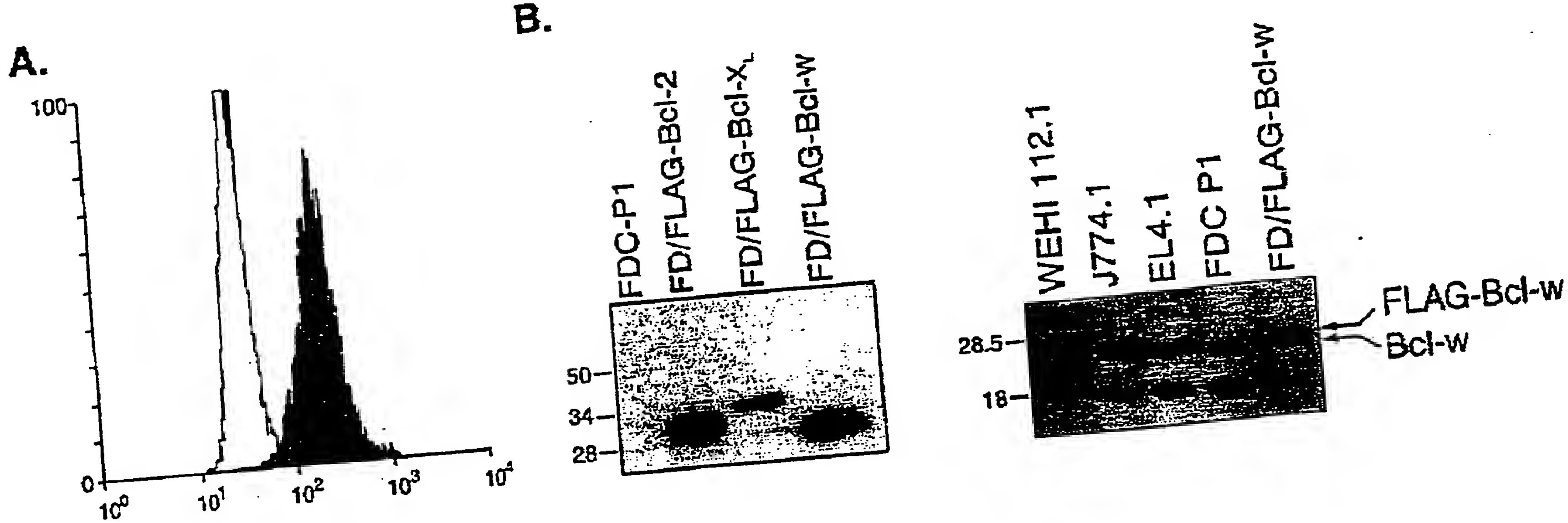


FIGURE 4

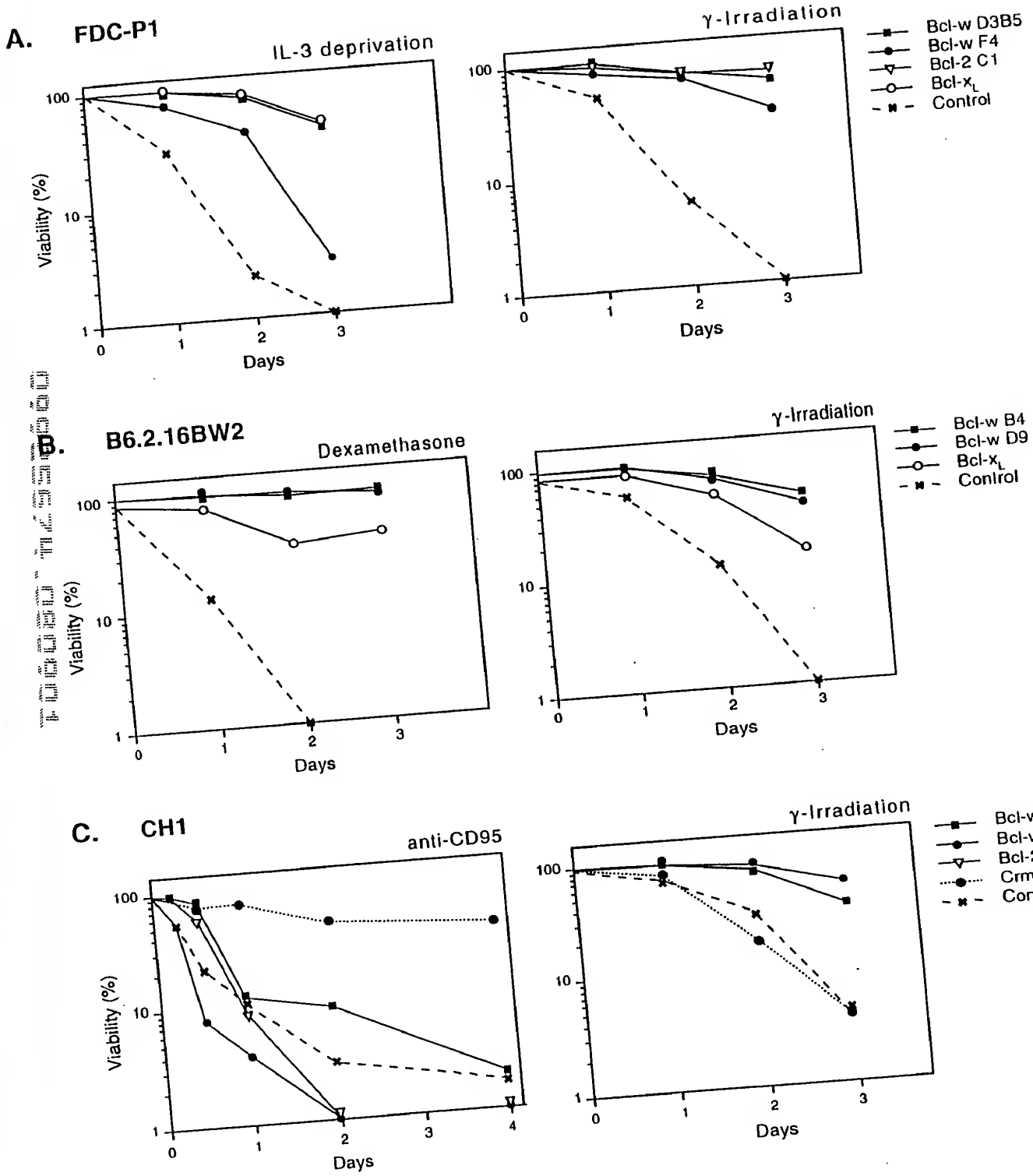
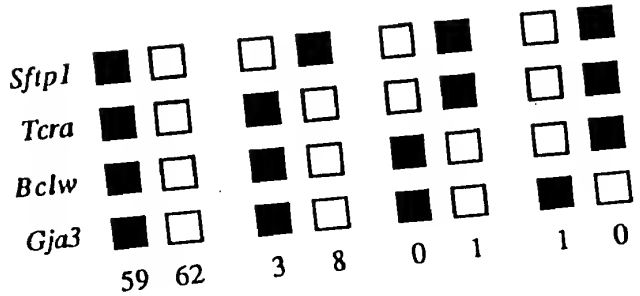

A. FDC-P1
IL-3 deprivation
γ-Irradiation
Bcl-w D3B5
Bcl-w F4
Bcl-2 C1
Bcl-x$_L$
Control
Viability (%)
Days
B. B6.2.16BW2
Dexamethasone
γ-Irradiation
Bcl-w B4
Bcl-w D9
Bcl-x$_L$
Control
Viability (%)
Days
C. CH1
anti-CD95
γ-Irradiation
Bcl-w P2
Bcl-w A5
Bcl-2
CrmA A7
Control
Viability (%)
Days

FIGURE 5


Sftp1
Tcra
Bclw
Gja3
59 62 3 8 0 1 1 0

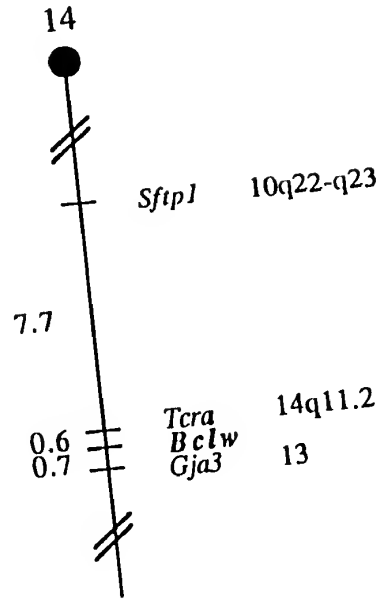

14
Sftp1
10q22-q23
7.7
Tcra
14q11.2
0.6
Bclw
0.7
Gja3
13

FIGURE 6

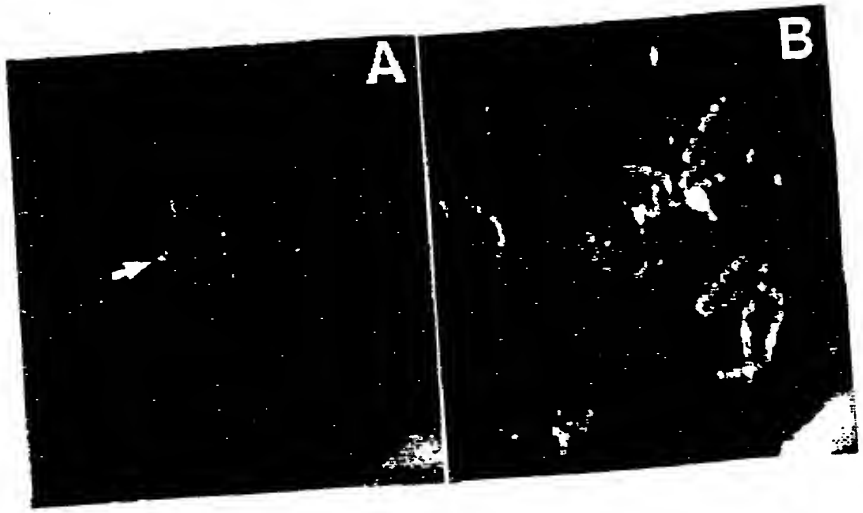


FIGURE 7

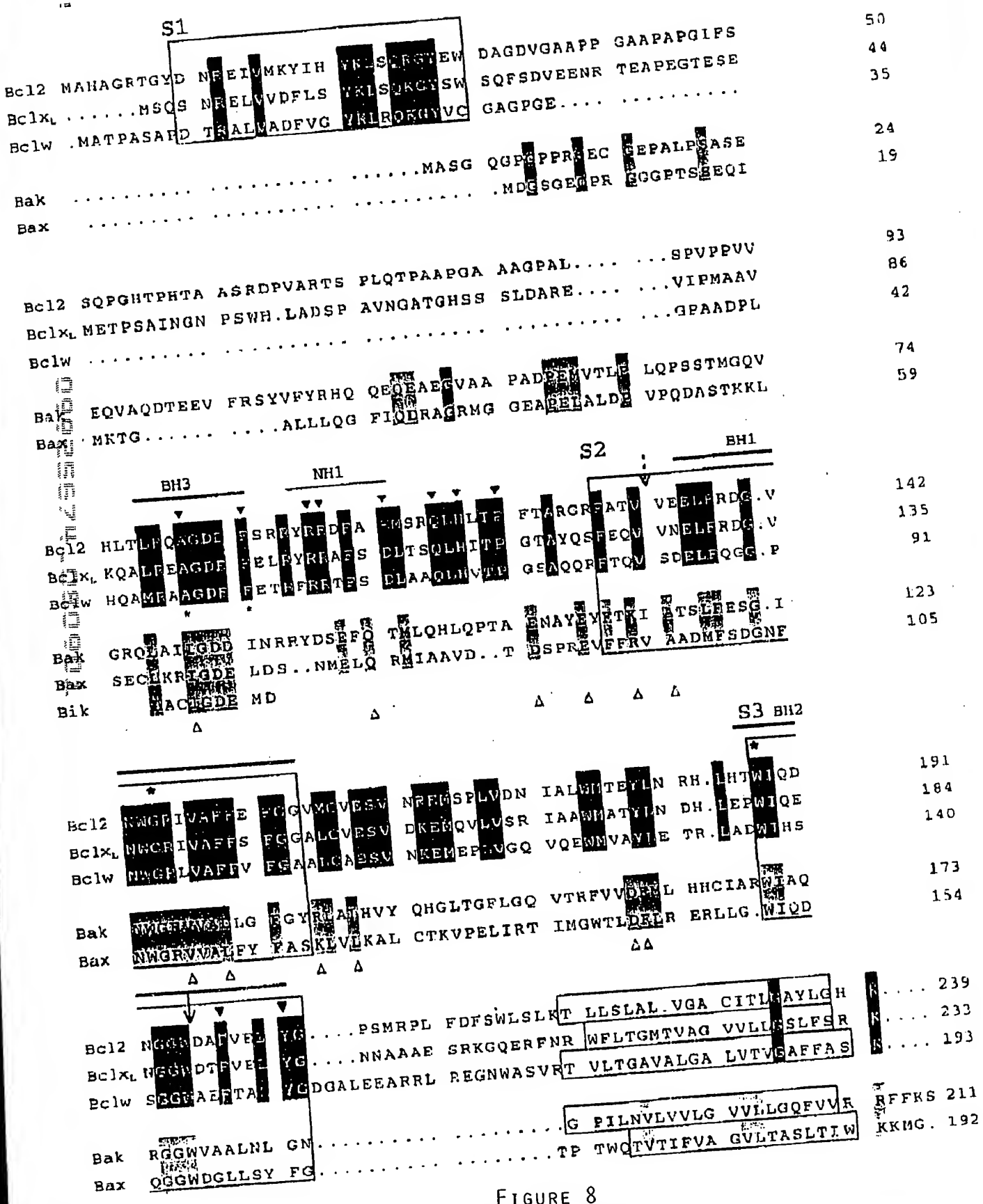


FIGURE 8

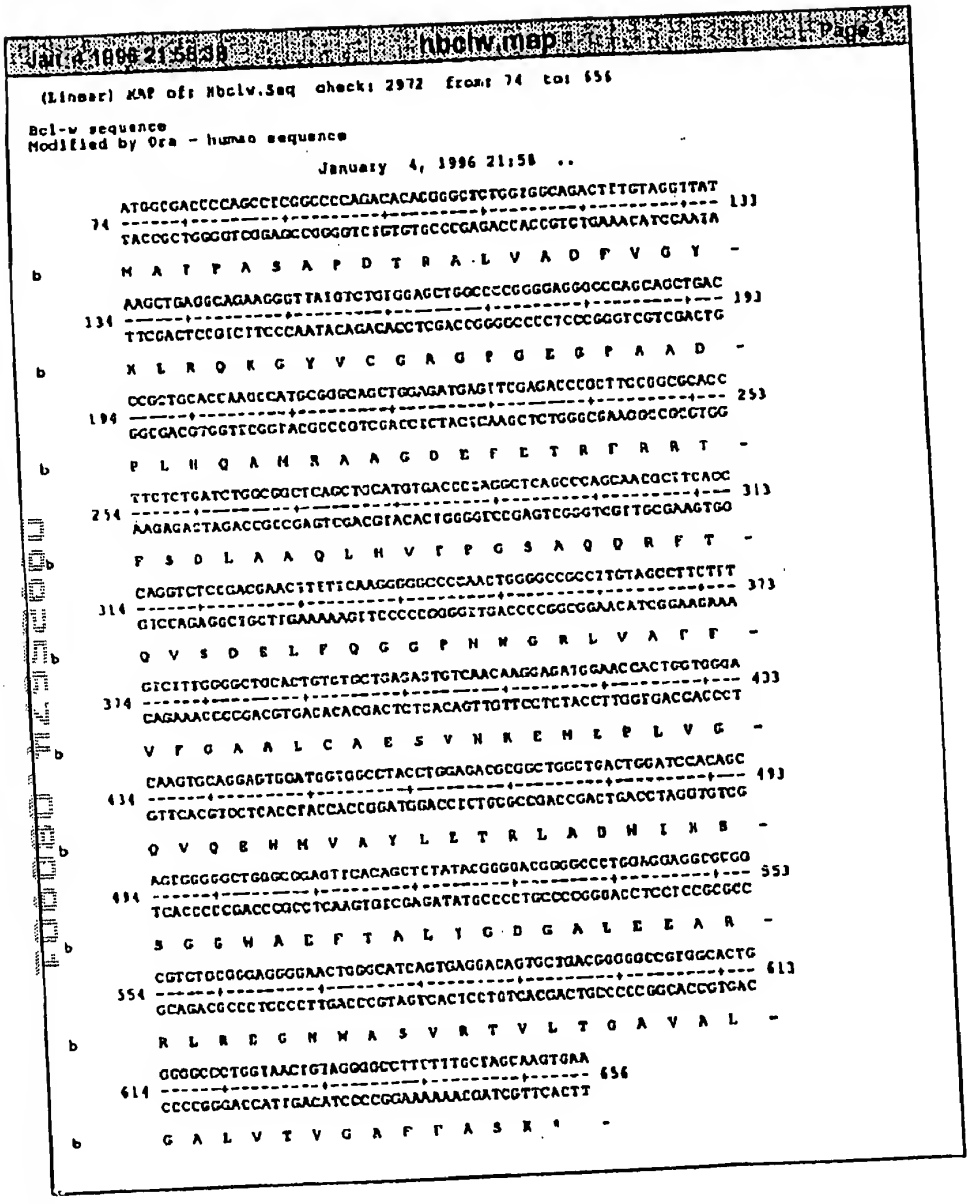

Jan 4 1996 21:58:38 hbclw.map Page 1
(Linear) Map of: Hbclw.Seq check: 2972 from: 74 to: 656
Bcl-w sequence
Modified by Ora - human sequence
January 4, 1996 21:58 ..

FIGURE 9A

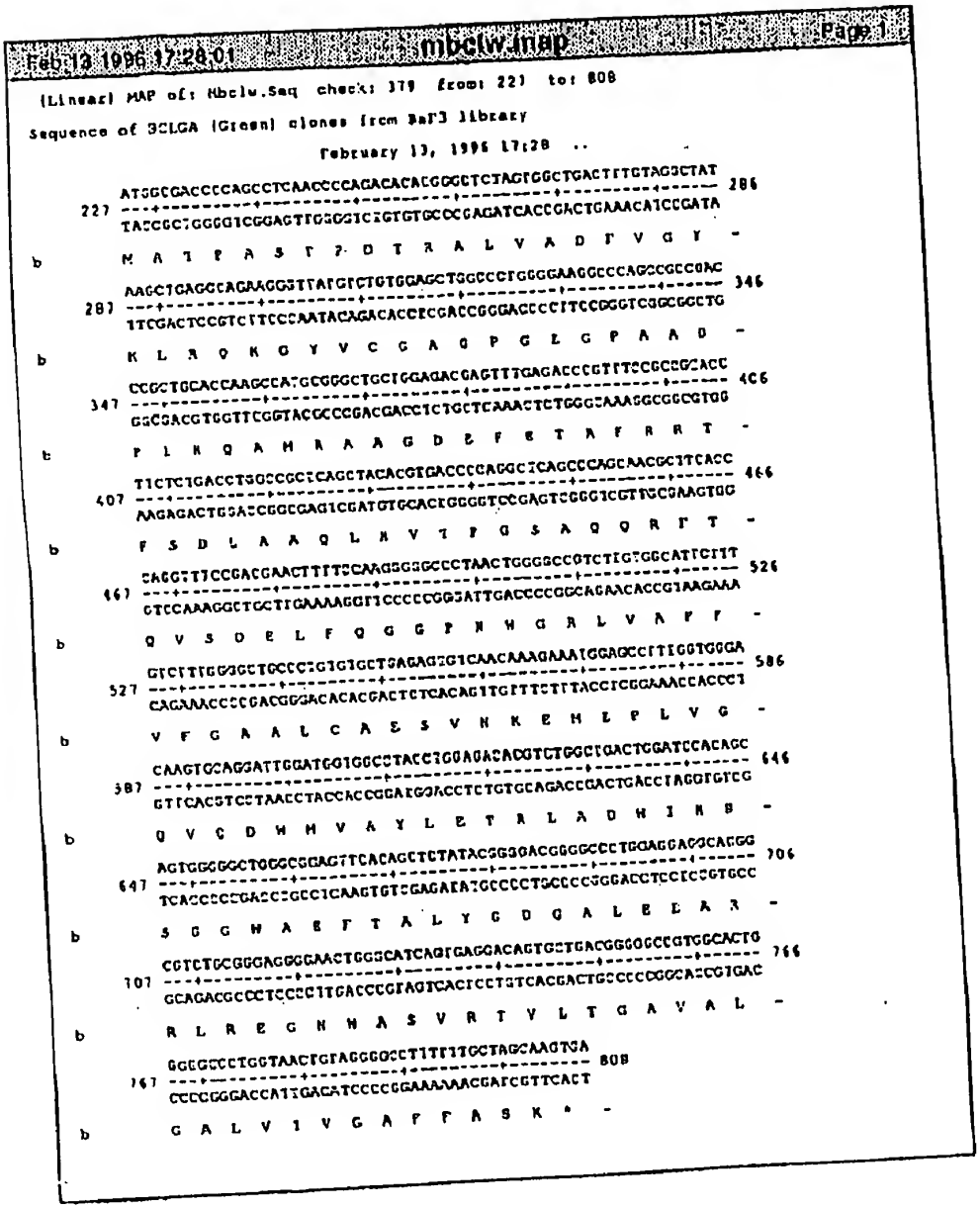

Feb 13 1996 17:28:01
mbclw.map
Page 1
(Linear) MAP of: Mbclw.Seq check: 379 from: 221 to: 808
Sequence of 3CLGA (Green) clones from BaP3 library
February 13, 1996 17:28

FIGURE 9B